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SEQUENCE LISTING

<110> Antisense Pharma GmbH

<120> PHARMACEUTICAL COMPOSITION

<130> 042613wo CS/FM

<140> PCT/EP2004/053604

<141> 2004-12-20

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<170> PatentIn Ver. 2.1

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<223> Description of Artificial Sequence:human VEGF
antisense oligonucleotide

<400> 118
catctgcaag tacg 14

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antisense oligonucleotide

<400> 119
cacatctgca agtac 15

<210> 120
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<220>
<223> Description of Artificial Sequence:human VEGF
antisense oligonucleotide

<400> 120
gtcacatctg caag 14

<210> 121
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<223> Description of Artificial Sequence:human VEGF
antisense oligonucleotide

<400> 121
cttgtcacat ctgc 14

<210> 122
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<223> Description of Artificial Sequence:human VEGF
antisense oligonucleotide

<400> 122
ggcttgcac atctgc 16

<210> 123
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<223> Description of Artificial Sequence:human VEGF
antisense oligonucleotide

<400> 123
ctcggttgt cacatc 16

<210> 124
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<223> Description of Artificial Sequence:human VEGF
antisense oligonucleotide

<400> 124

ctccttcctc ctgc

14

<210> 125
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antisense oligonucleotide

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18

<210> 126
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antisense oligonucleotide

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15

<210> 127
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<223> Description of Artificial Sequence:human IL-10
antisense oligonucleotide

<400> 127
gtaaaactgg atcatctc

18

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antisense oligonucleotide

<400> 128
cttcttttgc aagtctgt

18

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<223> Description of Artificial Sequence:human IL-10
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<400> 129
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<210> 130

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<223> Description of Artificial Sequence:human IL-10
antisense oligonucleotide

<400> 130
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<210> 131

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<223> Description of Artificial Sequence:human IL-10
antisense oligonucleotide

<400> 131
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<210> 132

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<223> Description of Artificial Sequence:human IL-10
antisense oligonucleotide

<400> 132
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<210> 133

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<223> Description of Artificial Sequence:human IL-10
antisense oligonucleotide

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antisense oligonucleotide	
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antisense oligonucleotide	
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antisense oligonucleotide

<400> 138
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<210> 139
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<223> Description of Artificial Sequence:human IL-10
antisense oligonucleotide

<400> 139
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<210> 140
<211> 18
<212> DNA
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<223> Description of Artificial Sequence:human IL-10
antisense oligonucleotide

<400> 140
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<210> 141
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antisense oligonucleotide

<400> 141
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<210> 142
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antisense oligonucleotide

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antisense oligonucleotide	
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antisense oligonucleotide	
<400> 144	15
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antisense oligonucleotide	
<400> 145	18
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antisense oligonucleotide	
<400> 146	18
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<223> Description of Artificial Sequence:antisense mRNA
of human TGF-beta 1

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<210> 148

<211> 1695

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:antisense mRNA of human TGF-beta 2

<400> 148

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<210> 149

<211> 2529

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:antisense mRNA
of human TGF-beta 3

<400> 149

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<220>
 <223> Description of Artificial Sequence:antisense mRNA
 of human IL-10

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 tggatcat 600
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of human Prostaglandin E2 Synthase

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<210> 152
<211> 990
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<220>

<223> Description of Artificial Sequence:antisense mRNA of human VEGF

<400> 152

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<210> 153

<211> 390

<212> PRT

<213> *Homo sapiens*

<400> 153

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35 40 45

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50 55 60

Gln Gly Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val Leu Ala Leu
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Tyr Asn Ser Thr Arg Asp Arg Val Ala Gly Glu Ser Ala Glu Pro Glu
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Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr Arg Val Leu
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Met Val Glu Thr His Asn Glu Ile Tyr Asp Lys Phe Lys Gln Ser Thr
115 120 125

His Ser Ile Tyr Met Phe Phe Asn Thr Ser Glu Leu Arg Glu Ala Val
130 135 140

Pro Glu Pro Val Leu Leu Ser Arg Ala Glu Leu Arg Leu Leu Arg Leu
145 150 155 160

Lys Leu Lys Val Glu Gln His Val Glu Leu Tyr Gln Lys Tyr Ser Asn
165 170 175

Asn Ser Trp Arg Tyr Leu Ser Asn Arg Leu Leu Ala Pro Ser Asp Ser
180 185 190

Pro Glu Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg Gln Trp Leu
195 200 205

Ser Arg Gly Gly Glu Ile Glu Gly Phe Arg Leu Ser Ala His Cys Ser
210 215 220

Cys Asp Ser Arg Asp Asn Thr Leu Gln Val Asp Ile Asn Gly Phe Thr
225 230 235 240

Thr Gly Arg Arg Gly Asp Leu Ala Thr Ile His Gly Met Asn Arg Pro
245 250 255

Phe Leu Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln His Leu Gln
260 265 270

Ser Ser Arg His Arg Arg Ala Leu Asp Thr Asn Tyr Cys Phe Ser Ser
275 280 285

Thr Glu Lys Asn Cys Cys Val Arg Gln Leu Tyr Ile Asp Phe Arg Lys
290 295 300

Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys Gly Tyr His Ala Asn
305 310 315 320

Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp Thr Gln Tyr
325 330 335

Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly Ala Ser Ala
340 345 350

Ala Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro Ile Val Tyr
355 360 365

Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn Met Ile Val
370 375 380

Arg Ser Cys Lys Cys Ser
385 390

<210> 154

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 1

<400> 154
Ala Leu Asp Thr Asn Tyr Cys Phe Ser Ser Thr Glu Lys Asn Cys Cys
1 5 10 15

Val Arg Gln Leu
20

<210> 155
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 1

<400> 155
Tyr Ile Asp Phe Arg Lys Asp Leu Gly Trp Lys Trp Ile His Glu Pro
1 5 10 15

Lys Gly Tyr His
20

<210> 156
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 1

<400> 156
Ala Asn Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp Thr
1 5 10 15

Gln Tyr Ser Lys
20

<210> 157
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 1

<400> 157
Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly Ala Ser Ala Ala Pro
1 5 10 15

Cys Cys Val Pro
20

<210> 158
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 1

<400> 158
Gln Ala Leu Glu Pro Leu Pro Ile Val Tyr Tyr Val Gly Arg Lys Pro
1 5 10 15

Lys Val Glu Gln
20

<210> 159
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 1

<400> 159
Leu Ser Asn Met Ile Val Arg Ser Cys Lys Cys Ser
1 5 10

<210> 160
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 1

<400> 160
Thr Glu Lys Asn Cys Cys Val Arg Gln Leu Tyr Ile Asp Phe Arg Lys
1 5 10 15

Asp Leu Gly Trp
20

<210> 161
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 1

<400> 161
Lys Trp Ile His Glu Pro Lys Gly Tyr His Ala Asn Phe Cys Leu Gly
1 5 10 15

Pro Cys Pro Tyr
20

<210> 162
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 1

<400> 162
Trp Ser Leu Asp Thr Gln Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln
1 5 10 15

His Asn Pro

<210> 163
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 1

<400> 163
Gly Ala Ser Ala Ala Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu
1 5 10 15

Pro Ile Val Tyr
20

<210> 164
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 1

<400> 164
Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn Met Ile Val
1 5 10 15

Arg Ser Cys Lys Cys Ser
20

<210> 165
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 1

<400> 165
Gln Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly Ala
1 5 10 15

Ser Ala Ala Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro Ile
20 25 30

Val Tyr Tyr Val Gly Arg Lys Pro
35 40

<210> 166
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 1

<220>
<221> DISULFID
<222> (21)
<223> intermolecular disulfide bridge with SEQ ID No.
219

<400> 166
Gln Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly Ala
1 5 10 15

Ser Ala Ala Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro Ile
20 25 30

Val Tyr Tyr Val Gly Arg Lys Pro
35 40

<210> 167
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 1

<400> 167
Ala Leu Asp Thr Asn Tyr Cys Phe Ser Ser Thr Glu Lys Asn Cys Cys

1	5	10	15
Val Arg Gln Leu Tyr Ile Asp Phe Arg Lys Asp Leu Gly Trp Lys Trp			
20	25	30	
Ile His Glu Pro Lys Gly Tyr His Ala Asn Phe Cys Leu Gly Pro Cys			
35	40	45	
Pro Tyr Ile Trp Ser Leu Asp Thr Gln Tyr Ser Lys Val Leu Ala Leu			
50	55	60	
Tyr Asn Gln His Asn Pro Gly Ala Ser Ala Ala Pro Cys Cys Val Pro			
65	70	75	80
Gln Ala Leu Glu Pro Leu Pro Ile Val Tyr Tyr Val Gly Arg Lys Pro			
85	90	95	
Lys Val Glu Gln Leu Ser Asn Met Ile Val Arg Ser Cys Lys Cys Ser			
100	105	110	

<210> 168
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 1

<400> 168			
Ala Leu Asp Thr Asn Tyr Cys Phe Ser Ser Thr Glu Lys Asn Cys Cys			
1	5	10	15

Val Arg Gln Leu Tyr Ile Asp Phe Arg Lys Asp Leu Gly Trp			
20	25	30	

<210> 169
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 1

<400> 169			
Lys Trp Ile His Glu Pro Lys Gly Tyr His Ala Asn Phe Cys Leu Gly			
1	5	10	15

Pro Cys Pro Tyr Ile Trp Ser Leu Asp Thr Gln Tyr Ser Lys			
20	25	30	

<210> 170

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 1

<400> 170

Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly Ala Ser Ala Ala Pro
1 5 10 15

Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro Ile Val Tyr
20 25 30

<210> 171

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 1

<400> 171

Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn Met Ile Val
1 5 10 15

Arg Ser Cys Lys Cys Ser
20

<210> 172

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 1

<400> 172

Cys Val Arg Gln Leu Tyr Ile Asp Phe Arg Lys Asp Leu Gly Trp Lys
1 5 10 15

Trp Ile His Glu Pro Lys Gly Tyr His Ala Asn Phe Cys Leu
20 25 30

<210> 173

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:peptide

fragments of human TGF-beta 1

<400> 173
Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp Thr Gln Tyr Ser Lys Val
1 5 10 15

Leu Ala Leu Tyr Asn Gln His Asn Pro Gly Ala Ser Ala Ala
20 25 30

<210> 174

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 1

<400> 174
Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro Ile Val Tyr Tyr
1 5 10 15
Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn Met Ile
20 25 30

<210> 175

<211> 413

<212> PRT

<213> Homo sapiens

<400> 175

Met His Tyr Cys Val Leu Ser Ala Phe Leu Ile Leu His Leu Val Thr
1 5 10 15

Val Ala Leu Ser Leu Ser Thr Cys Ser Thr Leu Asp Met Asp Gln Phe
20 25 30

Met Arg Lys Arg Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu
35 40 45

Lys Leu Thr Ser Pro Pro Glu Asp Tyr Pro Glu Pro Glu Val Pro
50 55 60

Pro Glu Val Ile Ser Ile Tyr Asn Ser Thr Arg Asp Leu Leu Gln Glu
65 70 75 80

Lys Ala Ser Arg Arg Ala Ala Ala Cys Glu Arg Glu Arg Ser Asp Glu
85 90 95

Glu Tyr Tyr Ala Lys Glu Val Tyr Lys Ile Asp Met Pro Pro Phe Phe
100 105 110

Pro Ser Glu Asn Ala Ile Pro Pro Thr Phe Tyr Arg Pro Tyr Phe Arg
115 120 125

Ile Val Arg Phe Asp Val Ser Ala Met Glu Lys Asn Ala Ser Asn Leu

130	135	140
Val Lys Ala Glu Phe Arg Val Phe Arg Leu Gln Asn Pro Lys Ala Arg		
145	150	155
160		
Val Pro Glu Gln Arg Ile Glu Leu Tyr Gln Ile Leu Lys Ser Lys Asp		
165	170	175
Leu Thr Ser Pro Thr Gln Arg Tyr Ile Asp Ser Lys Val Val Lys Thr		
180	185	190
Arg Ala Glu Gly Glu Trp Leu Ser Phe Asp Val Thr Asp Ala Val His		
195	200	205
Glu Trp Leu His His Lys Asp Arg Asn Leu Gly Phe Lys Ile Ser Leu		
210	215	220
His Cys Pro Cys Cys Thr Phe Val Pro Ser Asn Asn Tyr Ile Ile Pro		
225	230	235
240		
Asn Lys Ser Glu Glu Leu Glu Ala Arg Phe Ala Gly Ile Asp Gly Thr		
245	250	255
Ser Thr Tyr Thr Ser Gly Asp Gln Lys Thr Ile Lys Ser Thr Arg Lys		
260	265	270
Lys Asn Ser Gly Lys Thr Pro His Leu Leu Leu Met Leu Leu Pro Ser		
275	280	285
Tyr Arg Leu Glu Ser Gln Gln Thr Asn Arg Arg Lys Arg Ala Leu Asp		
290	295	300
Ala Ala Tyr Cys Phe Arg Asn Val Gln Asp Asn Cys Cys Leu Arg Pro		
305	310	315
320		
Leu Tyr Ile Asp Phe Lys Arg Asp Leu Gly Trp Lys Trp Ile His Glu		
325	330	335
Pro Lys Gly Tyr Asn Ala Asn Phe Cys Ala Gly Ala Cys Pro Tyr Leu		
340	345	350
Trp Ser Ser Asp Thr Gln His Ser Arg Val Leu Ser Leu Tyr Asn Thr		
355	360	365
Ile Asn Pro Glu Ala Ser Ala Ser Pro Cys Cys Val Ser Gln Asp Leu		
370	375	380
Glu Pro Leu Thr Ile Leu Tyr Tyr Ile Gly Lys Thr Pro Lys Ile Glu		
385	390	395
400		
Gln Leu Ser Asn Met Ile Val Lys Ser Cys Lys Cys Ser		
405	410	

<210> 176

<211> 20

<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 2

<400> 176
Ala Leu Asp Ala Ala Tyr Cys Phe Arg Asn Val Gln Asp Asn Cys Cys
1 5 10 15

Leu Arg Pro Leu
20

<210> 177
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 2

<400> 177
Tyr Ile Asp Phe Lys Arg Asp Leu Gly Trp Lys Trp Ile His Glu Pro
1 5 10 15

Lys Gly Tyr Asn
20

<210> 178
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 2

<400> 178
Ala Asn Phe Cys Ala Gly Ala Cys Pro Tyr Leu Trp Ser Ser Asp Thr
1 5 10 15

Gln His Ser Arg
20

<210> 179
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 2

<400> 179
Val Leu Ser Leu Tyr Asn Thr Ile Asn Pro Glu Ala Ser Ala Ser Pro

1 5 10 15

Cys Cys Val Ser
20

<210> 180
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 2

<400> 180
Gln Asp Leu Glu Pro Leu Thr Ile Leu Tyr Tyr Ile Gly Lys Thr Pro
1 5 10 15

Lys Ile Glu Gln
20

<210> 181
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 2

<400> 181
Leu Ser Asn Met Ile Val Lys Ser Cys Lys Cys Ser
1 5 10

<210> 182
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 2

<400> 182
Val Gln Asp Asn Cys Cys Leu Arg Pro Leu Tyr Ile Asp Phe Lys Arg
1 5 10 15

Asp Leu Gly Trp
20

<210> 183
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 2

<400> 183
Lys Trp Ile His Glu Pro Lys Gly Tyr Asn Ala Asn Phe Cys Ala Gly
1 5 10 15

Ala Cys Pro Tyr
20

<210> 184
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 2

<400> 184
Leu Trp Ser Ser Asp Thr Gln His Ser Arg Val Leu Ser Leu Tyr Asn
1 5 10 15

Thr Ile Asn Pro
20

<210> 185
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 2

<400> 185
Glu Ala Ser Ala Ser Pro Cys Cys Val Ser Gln Asp Leu Glu Pro Leu
1 5 10 15

Thr Ile Leu Tyr
20

<210> 186
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 2

<400> 186
Tyr Ile Gly Lys Thr Pro Lys Ile Glu Gln Leu Ser Asn Met Ile Val

1 5 10 15

Lys Ser Cys Lys Cys Ser
20

<210> 187
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 2

<400> 187
Gln His Ser Arg Val Leu Ser Leu Tyr Asn Thr Ile Asn Pro Glu Ala
1 5 10 15

Ser Ala Ser Pro Cys Cys Val Ser Gln Asp Leu Glu Pro Leu Thr Ile
20 25 30

Leu Tyr Tyr Ile Gly Lys Thr Pro Lys
35 40

<210> 188
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 2

<220>
<221> DISULFID
<222> (21)
<223> intermolecular disulfide bridge with SEQ ID No.
220

<400> 188
Gln His Ser Arg Val Leu Ser Leu Tyr Asn Thr Ile Asn Pro Glu Ala
1 5 10 15

Ser Ala Ser Pro Cys Cys Val Ser Gln Asp Leu Glu Pro Leu Thr Ile
20 25 30

Leu Tyr Tyr Ile Gly Lys Thr Pro Lys
35 40

<210> 189
<211> 112
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 2

<400> 189

Ala Leu Asp Ala Ala Tyr Cys Phe Arg Asn Val Gln Asp Asn Cys Cys
1 5 10 15

Leu Arg Pro Leu Tyr Ile Asp Phe Lys Arg Asp Leu Gly Trp Lys Trp
20 25 30

Ile His Glu Pro Lys Gly Tyr Asn Ala Asn Phe Cys Ala Gly Ala Cys
35 40 45

Pro Tyr Leu Trp Ser Ser Asp Thr Gln His Ser Arg Val Leu Ser Leu
50 55 60

Tyr Asn Thr Ile Asn Pro Glu Ala Ser Ala Ser Pro Cys Cys Val Ser
65 70 75 80

Gln Asp Leu Glu Pro Leu Thr Ile Leu Tyr Tyr Ile Gly Lys Thr Pro
85 90 95

Lys Ile Glu Gln Leu Ser Asn Met Ile Val Lys Ser Cys Lys Cys Ser
100 105 110

<210> 190

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 2

<400> 190

Ala Leu Asp Ala Ala Tyr Cys Phe Arg Asn Val Gln Asp Asn Cys Cys
1 5 10 15

Leu Arg Pro Leu Tyr Ile Asp Phe Lys Arg Asp Leu Gly Trp
20 25 30

<210> 191

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 2

<400> 191

Lys Trp Ile His Glu Pro Lys Gly Tyr Asn Ala Asn Phe Cys Ala Gly
1 5 10 15

Ala Cys Pro Tyr Leu Trp Ser Ser Asp Thr Gln His Ser Arg
20 25 30

<210> 192
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 2

<400> 192
Val Leu Ser Leu Tyr Asn Thr Ile Asn Pro Glu Ala Ser Ala Ser Pro
1 5 10 15

Cys Cys Val Ser Gln Asp Leu Glu Pro Leu Thr Ile Leu Tyr
20 25 30

<210> 193
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 2

<400> 193
Tyr Ile Gly Lys Thr Pro Lys Ile Glu Gln Leu Ser Asn Met Ile Val
1 5 10 15

Lys Ser Cys Lys Cys Ser
20

<210> 194
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 2

<400> 194
Cys Leu Arg Pro Leu Tyr Ile Asp Phe Lys Arg Asp Leu Gly Trp Lys
1 5 10 15

Trp Ile His Glu Pro Lys Gly Tyr Asn Ala Asn Phe Cys Ala
20 25 30

<210> 195
<211> 30

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 2

<400> 195
Gly Ala Cys Pro Tyr Leu Trp Ser Ser Asp Thr Gln His Ser Arg Val
1 5 10 15
Leu Ser Leu Tyr Asn Thr Ile Asn Pro Glu Ala Ser Ala Ser
20 25 30

<210> 196
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 2

<400> 196
Pro Cys Cys Val Ser Gln Asp Leu Glu Pro Leu Thr Ile Leu Tyr Tyr
1 5 10 15
Ile Gly Lys Thr Pro Lys Ile Glu Gln Leu Ser Asn Met Ile
20 25 30

<210> 197
<211> 412
<212> PRT
<213> Homo sapiens

<400> 197
Met Lys Met His Leu Gln Arg Ala Leu Val Val Leu Ala Leu Leu Asn
1 5 10 15
Phe Ala Thr Val Ser Leu Ser Thr Cys Thr Thr Leu Asp Phe
20 25 30
Gly His Ile Lys Lys Lys Arg Val Glu Ala Ile Arg Gly Gln Ile Leu
35 40 45
Ser Lys Leu Arg Leu Thr Ser Pro Pro Glu Pro Thr Val Met Thr His
50 55 60

Val Pro Tyr Gln Val Leu Ala Leu Tyr Asn Ser Thr Arg Glu Leu Leu
65 70 75 80

Glu Glu Met His Gly Glu Arg Glu Glu Gly Cys Thr Gln Glu Asn Thr
85 90 95

Glu Ser Glu Tyr Tyr Ala Lys Glu Ile His Lys Phe Asp Met Ile Gln
100 105 110

Gly Leu Ala Glu His Asn Glu Leu Ala Val Cys Pro Lys Gly Ile Thr
115 120 125

Ser Lys Val Phe Arg Phe Asn Val Ser Ser Val Glu Lys Asn Arg Thr
130 135 140

Asn Leu Phe Arg Ala Glu Phe Arg Val Leu Arg Val Pro Asn Pro Ser
145 150 155 160

Ser Lys Arg Asn Glu Gln Arg Ile Glu Leu Phe Gln Ile Leu Arg Pro
165 170 175

Asp Glu His Ile Ala Lys Gln Arg Tyr Ile Gly Gly Lys Asn Leu Pro
180 185 190

Thr Arg Gly Thr Ala Glu Trp Leu Ser Phe Asp Val Thr Asp Thr Val
195 200 205

Arg Glu Trp Leu Leu Arg Arg Glu Ser Asn Leu Gly Leu Glu Ile Ser
210 215 220

Ile His Cys Pro Cys His Thr Phe Gln Pro Asn Gly Asp Ile Leu Glu
225 230 235 240

Asn Ile His Glu Val Met Glu Ile Lys Phe Lys Gly Val Asp Asn Glu
245 250 255

Asp Asp His Gly Arg Gly Asp Leu Gly Arg Leu Lys Lys Gln Lys Asp
260 265 270

His His Asn Pro His Leu Ile Leu Met Met Ile Pro Pro His Arg Leu
275 280 285

Asp Asn Pro Gly Gln Gly Gln Arg Lys Lys Arg Ala Leu Asp Ala
290 295 300

Ala Tyr Cys Phe Arg Asn Val Gln Asp Asn Cys Cys Leu Arg Pro Leu
305 310 315 320

Tyr Ile Asp Phe Lys Arg Asp Leu Gly Trp Lys Trp Ile His Glu Pro
325 330 335

Lys Gly Tyr Asn Ala Asn Phe Cys Ala Gly Ala Cys Pro Tyr Leu Trp
340 345 350

Ser Ser Asp Thr Gln His Ser Arg Val Leu Ser Leu Tyr Asn Thr Ile
355 360 365

Asn Pro Glu Ala Ser Ala Ser Pro Cys Cys Val Ser Gln Asp Leu Glu
370 375 380

Pro Leu Thr Ile Leu Tyr Tyr Ile Gly Lys Thr Pro Lys Ile Glu Gln
385 390 395 400

Leu Ser Asn Met Ile Val Lys Ser Cys Lys Cys Ser
405 410

<210> 198

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 3

<400> 198

Ala Leu Asp Thr Asn Tyr Cys Phe Arg Asn Leu Glu Glu Asn Cys Cys
1 5 10 15

Val Arg Pro Leu
20

<210> 199

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 3

<400> 199

Tyr Ile Asp Phe Arg Gln Asp Leu Gly Trp Lys Trp Val His Glu Pro
1 5 10 15

Lys Gly Tyr Tyr
20

<210> 200

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 3

<400> 200

Ala Asn Phe Cys Ser Gly Pro Cys Pro Tyr Leu Arg Ser Ala Asp Thr
1 5 10 15

Thr His Ser Thr
20

<210> 201

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 3

<400> 201
Val Leu Gly Leu Tyr Asn Thr Leu Asn Pro Glu Ala Ser Ala Ser Pro
1 5 10 15

Cys Cys Val Pro
20

<210> 202
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 3

<400> 202
Gln Asp Leu Glu Pro Leu Thr Ile Leu Tyr Tyr Val Gly Arg Thr Pro
1 5 10 15

Lys Val Glu Gln
20

<210> 203
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 3

<400> 203
Leu Ser Asn Met Val Val Lys Ser Cys Lys Cys Ser
1 5 10

<210> 204
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 3

<400> 204
Asn Leu Glu Glu Asn Cys Cys Val Arg Pro Leu Tyr Ile Asp Phe Arg
1 5 10 15

Gln Asp Leu Gly
20

<210> 205

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 3

<400> 205

Trp Lys Trp Val His Glu Pro Lys Gly Tyr Tyr Ala Asn Phe Cys Ser
1 5 10 15

Gly Pro Cys Pro
20

<210> 206

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 3

<400> 206

Tyr Leu Arg Ser Ala Asp Thr Thr His Ser Thr Val Leu Gly Leu Tyr
1 5 10 15

Asn Thr Leu Asn
20

<210> 207

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 3

<400> 207

Pro Glu Ala Ser Ala Ser Pro Cys Cys Val Pro Gln Asp Leu Glu Pro
1 5 10 15

Leu Thr Ile Leu
20

<210> 208

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 3

<400> 208

Tyr Tyr Val Gly Arg Thr Pro Lys Val Glu Gln Leu Ser Asn Met Val
1 5 10 15

Val Lys Ser Cys Lys Cys Ser
20

<210> 209

<211> 41

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 3

<400> 209

Thr His Ser Thr Val Leu Gly Leu Tyr Asn Thr Leu Asn Pro Glu Ala
1 5 10 15

Ser Ala Ser Pro Cys Cys Val Pro Gln Asp Leu Glu Pro Leu Thr Ile
20 25 30

Leu Tyr Tyr Val Gly Arg Thr Pro Lys
35 40

<210> 210

<211> 41

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<213> Artificial Sequence

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<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 3

<220>

<221> DISULFID

<222> (21)

<223> intermolecular disulfide bridge to SEQ ID No. 221

<400> 210

Thr His Ser Thr Val Leu Gly Leu Tyr Asn Thr Leu Asn Pro Glu Ala
1 5 10 15

Ser Ala Ser Pro Cys Cys Val Pro Gln Asp Leu Glu Pro Leu Thr Ile
20 25 30

Leu Tyr Tyr Val Gly Arg Thr Pro Lys
35 40

<210> 211

<211> 112

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 3

<400> 211

Ala Leu Asp Ala Ala Tyr Cys Phe Arg Asn Val Gln Asp Asn Cys Cys
1 5 10 15

Leu Arg Pro Leu Tyr Ile Asp Phe Lys Arg Asp Leu Gly Trp Lys Trp
20 25 30

Ile His Glu Pro Lys Gly Tyr Asn Ala Asn Phe Cys Ala Gly Ala Cys
35 40 45

Pro Tyr Leu Trp Ser Ser Asp Thr Gln His Ser Arg Val Leu Ser Leu
50 55 60

Tyr Asn Thr Ile Asn Pro Glu Ala Ser Ala Ser Pro Cys Cys Val Ser
65 70 75 80

Gln Asp Leu Glu Pro Leu Thr Ile Leu Tyr Tyr Ile Gly Lys Thr Pro
85 90 95

Lys Ile Glu Gln Leu Ser Asn Met Ile Val Lys Ser Cys Lys Cys Ser
100 105 110

<210> 212

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<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 3

<400> 212

Ala Leu Asp Ala Ala Tyr Cys Phe Arg Asn Val Gln Asp Asn Cys Cys
1 5 10 15

Leu Arg Pro Leu Tyr Ile Asp Phe Lys Arg Asp Leu Gly Trp
20 25 30

<210> 213

<211> 30

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fragments of human TGF-beta 3

<400> 213
Lys Trp Ile His Glu Pro Lys Gly Tyr Asn Ala Asn Phe Cys Ala Gly
1 5 10 15

Ala Cys Pro Tyr Leu Trp Ser Ser Asp Thr Gln His Ser Arg
20 25 30

<210> 214
<211> 30
<212> PRT
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fragments of human TGF-beta 3

<400> 214
Val Leu Ser Leu Tyr Asn Thr Ile Asn Pro Glu Ala Ser Ala Ser Pro
1 5 10 15

Cys Cys Val Ser Gln Asp Leu Glu Pro Leu Thr Ile Leu Tyr
20 25 30

<210> 215
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
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fragments of human TGF-beta 3

<400> 215
Tyr Ile Gly Lys Thr Pro Lys Ile Glu Gln Leu Ser Asn Met Ile Val
1 5 10 15

Lys Ser Cys Lys Cys Ser
20

<210> 216
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 3

<400> 216
Cys Leu Arg Pro Leu Tyr Ile Asp Phe Lys Arg Asp Leu Gly Trp Lys
1 5 10 15

Trp Ile His Glu Pro Lys Gly Tyr Asn Ala Asn Phe Cys Ala
20 25 30

<210> 217

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 3

<400> 217

Gly Ala Cys Pro Tyr Leu Trp Ser Ser Asp Thr Gln His Ser Arg Val
1 5 10 15

Leu Ser Leu Tyr Asn Thr Ile Asn Pro Glu Ala Ser Ala Ser
20 25 30

<210> 218

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 3

<400> 218

Pro Cys Cys Val Ser Gln Asp Leu Glu Pro Leu Thr Ile Leu Tyr Tyr
1 5 10 15

Ile Gly Lys Thr Pro Lys Ile Glu Gln Leu Ser Asn Met Ile
20 25 30

<210> 219

<211> 40

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 1

<220>

<221> DISULFID

<222> (21)

<223> intermolecular disulfide bridge with SEQ ID No.
166

<400> 219

Gln Tyr Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly Ala
1 5 10 15

Ser Ala Ala Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro Ile
20 25 30

Val Tyr Tyr Val Gly Arg Lys Pro
35 40

<210> 220
<211> 41
<212> PRT
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<220>
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<222> (21)
<223> intermolecular disulfide bridge to SEQ ID No. 188

<220>
<223> Description of Artificial Sequence:peptide
fragments of human TGF-beta 2

<400> 220
Gln His Ser Arg Val Leu Ser Leu Tyr Asn Thr Ile Asn Pro Glu Ala
1 5 10 15.

Ser Ala Ser Pro Cys Cys Val Ser Gln Asp Leu Glu Pro Leu Thr Ile
20 25 30

Leu Tyr Tyr Ile Gly Lys Thr Pro Lys
35 40

<210> 221
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
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fragments of human TGF-beta 3

<220>
<221> DISULFID
<222> (21)
<223> intermolecular disulfide bridge to SEQ ID No. 210

<400> 221
Thr His Ser Thr Val Leu Gly Leu Tyr Asn Thr Leu Asn Pro Glu Ala
1 5 10 15

Ser Ala Ser Pro Cys Cys Val Pro Gln Asp Leu Glu Pro Leu Thr Ile
20 25 30

Leu Tyr Tyr Val Gly Arg Thr Pro Lys
35 40